

Title (en)
Nozzle arrangement

Title (de)
Düsenanordnung

Title (fr)
Agencement de buse

Publication
EP 1942268 A3 20121128 (EN)

Application
EP 07254770 A 20071210

Priority
GB 0700238 A 20070106

Abstract (en)
[origin: EP1942268A2] Varying the fan nozzle flow area in a gas turbine engine 1 allows adjustment of the bypass flow for varying operational conditions such as cruise and take off. However, care must be taken with regard to variation in order not to introduce drag or operational susceptibility to failure. By provision of a deformable member having a contiguous surface 4, 14, 54 which is deformed laterally from a splitter such as a pylon 5, 15, 55 variation in flow area is achieved. A deformable member 4, 14, 54 will be secured through seals 18, 58 to ensure a smooth surface. Actuation may be through a shape memory alloy material or provision of mechanical actuators 10 to cause deformation of the contiguous surface 4, 14, 54.

IPC 8 full level
F02K 1/08 (2006.01); **F02K 3/06** (2006.01)

CPC (source: EP US)
F02K 1/085 (2013.01 - EP US); **F02K 3/075** (2013.01 - EP US)

Citation (search report)

- [E] EP 1900909 A2 20080319 - ROLLS ROYCE PLC [GB]
- [E] WO 2008045053 A2 20080417 - UNITED TECHNOLOGIES CORP [US], et al
- [X] WO 03099654 A2 20031204 - NORDAM GROUP INC [US]
- [AD] JP 2001050110 A 20010223 - ISHIKAWAJIMA HARIMA HEAVY IND
- [A] US 3756026 A 19730904 - TIMMS R, et al
- [A] EP 1612416 A1 20060104 - ROLLS ROYCE PLC [GB]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1942268 A2 20080709; EP 1942268 A3 20121128; EP 1942268 B1 20160309; GB 0700238 D0 20070214; US 2008166227 A1 20080710; US 8161754 B2 20120424

DOCDB simple family (application)
EP 07254770 A 20071210; GB 0700238 A 20070106; US 95762507 A 20071217